

## **ADMINISTRATOR'S FACT BOOK**

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General phone number and website to contact the FAA: 1-866-TELL-FAA and www.faa.gov/contact

## Introduction - FAA Administrator Michael Huerta





Our nation's airspace system is the safest and most efficient in the world.

As FAA Administrator, I routinely interact with travelers and pilots who use the National Airspace System (NAS). As you might expect, the users of the NAS are very interested to better understand how we safely oversee and manage America's aviation system.

Now, there is a single source available to find those answers. I'm pleased to report that source, called the *Administrator's Fact Book*, is now available and it's online. Here, you will find facts, data, graphics

and other materials that provide an overall picture of the many facets of our nation's complex airspace system.

Whether you are a researcher, journalist, economist, or aviation enthusiast, we at the FAA hope the *Administrator's Fact Book* meets your needs.

Sincerely,

Michael Huerta

## **FAA Mission and Vision**



# **FAA Mission**

To provide the safest, most efficient aerospace system in the world.

# **FAA Vision**

We strive to reach the next level of safety, efficiency, environmental responsibility and global leadership. We are accountable to the American public and our stakeholders.

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# **Safety**

Accidents, Fatalities and Rates by National Safety Board (NTSB) Classification, 1996 through 2015, for U.S. Air Carriers Operating Under 14 CFR 121, Scheduled Service (Airlines)

		Acci	dents	Fata	lities					nts per light Hours	Accide 1,000,0 Flo	00 Miles		ents per Departures
<u>Year</u>		All	<u>Fatal</u>	<u>Total</u>	Aboard	Flight Hours	Miles Flown	<u>Departures</u>	All	<u>Fatal</u>	All	<u>Fatal</u>	All	<u>Fatal</u>
1996		31	3	342	342	12,971,676	5,449,997,000	7,851,298	0.239	0.023	0.0057	0.0006	0.395	0.038
1997		43	3	3	2	15,061,662	6,339,432,000	9,925,058	0.285	0.020	0.0068	0.0005	0.433	0.030
1998		41	1	1	0	15,921,447	6,343,690,000	10,535,196	0.258	0.006	0.0065	0.0002	0.389	0.009
1999		40	2	12	11	16,693,365	6,689,327,000	10,860,692	0.240	0.012	0.0060	0.0003	0.368	0.018
2000		49	2	89	89	17,478,519	7,152,260,000	11,053,826	0.280	0.011	0.0069	0.0003	0.443	0.018
2001	*	41	6	531	525	17,157,858	6,994,939,000	10,632,880	0.216	0.012	0.0053	0.0003	0.348	0.019
2002		34	0	0	0	16,718,781	6,927,954,000	10,276,107	0.203	-	0.0049	-	0.331	-
2003		51	2	22	21	16,887,756	7,015,935,000	10,227,924	0.302	0.012	0.0073	0.0003	0.499	0.020
2004		23	1	13	13	18,184,016	7,604,248,000	10,782,989	0.126	0.005	0.0030	0.0001	0.213	0.009
2005	32	34	3	22	20	18,712,191	7,843,717,000	10,910,460	0.182	0.016	0.0043	0.0004	0.312	0.027
2006	32	26	2	50	49	18,647,896	7,851,864,000	10,627,481	0.139	0.011	0.0033	0.0003	0.245	0.019
2007	32	26	0	0	0	19,014,677	8,024,313,000	10,734,170	0.137	-	0.0032	-	0.242	-
2008	32	20	0	0	0	18,580,166	7,813,371,000	10,282,575	0.108	-	0.0026	-	0.195	-
2009	32	26	1	50	49	17,182,970	7,248,702,000	9,564,891	0.151	0.006	0.0036	0.0001	0.272	0.010
2010	32	28	0	0	0	17,235,121	7,352,374,000	9,467,282	0.162	-	0.0038	-	0.296	-
2011	32	29	0	0	0	17,464,623	7,473,520,000	9,419,064	0.166	-	0.0039	-	0.308	-
2012	32	26	0	0	0	17,271,783	7,443,532,000	9,241,935	0.151	-	0.0035	-	0.281	-
2013	32	19	0	0	0	17,323,783	7,475,895,000	9,156,961	0.110	-	0.0025	-	0.207	-
2014	32	28	0	0	0	17,266,292	7,492,800,000	8,912,313	0.162	-	0.0037	-	0.314	-
2015		27	0	0	0	17,435,000	7,611,973,000	8,859,000	0.155	-	0.0035	-	0.305	-

Notes: 2015 data are preliminary.

Flight hours, miles and departures are compiled by the Federal Aviation Administration.

Since March 20, 1997, aircraft with 10 or more seats used in scheduled passenger service have been operated under 14 CFR 121.

Years followed by the symbol \* are those in which an illegal act was responsible for an occurrence in this category. These acts, such as suicide and sabotage, are included in the totals for accidents and fatalities but are excluded for the purpose of accident rate computation. Table 12 contains a list of illegal act occurrences involving U.S. air carriers for the period covered by this table. Other than the persons aboard aircraft who were killed, fatalities resulting from the September 11, 2001, terrorist acts are excluded from this table.

#### **Description of Air Traffic Incident Data**

System Risk Event Rate: a 12-month rolling rate that compares the number of Risk Analysis Events (RAEs are events in which less than 66 percent of the required separation between aircraft was maintained) with the total number of validated losses of standard separation. Significantly improved data collection has led to an increase in reported events and RAEs since 2012. The total number of high-risk events remains low.

Runway incursions: the four categories (A, B, C or D) are based on defined criteria, including speed and the type and extent of any evasive action. Category A and B events are considered to have elevated risk.

Runway incursions are also classified by type: 1) pilot actions, measured as Pilot Deviations; 2) ATC actions, measured as Operational Incidents, and 3) actions by individuals driving or working in the vicinity of taxiways and runways, measured as Vehicle/Pedestrian Deviations.

Near Mid Air Collision (NMAC): when an aircraft flies within 500 feet of another aircraft, or a pilot or flight crew member reports a collision hazard between two or more aircraft.

#### **Airspace Incident Data**

Incident Type	Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
Near Mid-air Collision	2012	3	7	7	10	8	8	3	7	7	8	4	4	76
	2013	6	7	7	4	3	14	11	13	7	12	4	8	96
	2014	6	8	12	9	15	25	17	9	15	11	7	9	143
	2015	7	10	15	8	10	16	12	28	12	5	10	12	145
	2016	17	15	13	14	30	46	38	33	26	29	28	15	304
Pilot Deviation	2012	35	307	357	262	324	360	314	323	296	278	306	260	3422
	2013	228	270	262	267	268	291	310	380	299	306	267	217	3365
	2014	251	246	301	339	349	342	374	352	307	371	305	269	3806
	2015	284	297	376	339	361	362	374	341	327	302	281	243	3887
	2016	245	344	343	364	333	368	411	373	367	387	376	404	4315
Runway Incursion	2012	80	74	112	99	126	127	103	108	95	96	90	87	1197
	2013	93	94	101	92	105	131	138	110	105	110	102	86	1267
	2014	82	89	87	110	121	128	138	127	84	116	122	74	1278
	2015	118	102	121	141	108	141	149	146	120	126	126	109	1507
	2016	105	134	129	132	126	134	157	137	145	150	141	119	1609
Surface Incident	2012	17	18	21	13	15	24	15	18	14	18	18	15	206
	2013	19	17	29	19	33	34	25	23	24	43	18	29	313
	2014	22	27	26	35	31	39	30	25	33	34	33	16	351
	2015	24	15	31	26	19	26	34	24	20	53	51	41	364
	2016	54	48	59	66	61	67	67	62	54	61	44	67	710

### **Airspace Incident Data (continued)**

Incident Type	Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
Vehicle Pedestrian Deviations	2012	22	22	29	29	20	36	25	23	22	24	24	22	298
	2013	22	29	30	32	31	25	34	34	26	40	19	21	343
	2014	26	30	27	44	42	32	43	28	38	24	41	16	391
	2015	43	25	32	42	19	35	46	35	27	36	27	23	390
	2016	34	31	34	39	39	31	43	37	39	37	34	36	434
Loss of Separation	2012	71	349	314	428	391	480	465	558	511	580	480	576	F207
ross of Sebaration	2012	71	493	540	598	554		581	588	578	584	539		5203
	2013	640 509	517	695	747	665	511 602	646	647	585	615	598	529 640	6735 7466
	2014	562	512	567	589	572	574	590	764	668	683	649	683	7413
	2016	637	648	813	704	838	791	753	765	696	721	657	663	8686
Incident Rates	Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
High Risk Analysis Events	2012	2	3	2	5	3	2	5	9	2	2	1	3	39
System Risk Event Rate	2013	1	2	4	4	2	7	3	5	4	4	2	3	41
	2014	1	0	2	4	2	3	0	2	2	4	2	2	24
	2015	0	1	0	2	2	3	3	0	0	0	2	1	14
	2016	4	3	3	3	1	0	4	2	0	1	0	2	23
Runway Incursion Category A & B	Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
Runway Incursion Rate	2012	0	4	2	2	0	2	1	1	0	0	0	0	12
	2013	0	1	2	1	1	3	2	0	1	2	1	2	16
	2014	1	3	1	1	1	0	2	0	0	2	1	2	14
	2015	3	1	1	3	0	1	0	0	1	2	2	0	14
	2016	3	3	1	0	2	2	2	2	0	3	1	0	19

#### **Footnotes for Data Table**

Pilot-reported NMACs with Unmanned Aircraft Systems (UAS) now account for more than half of all reported events.

The Pilot Deviation (PD) table includes events that did not have a loss of standard separation. PDs with a loss of standard separation are included in the Loss of Separation table.

Loss of Separation events include incidents attributable to both pilot and air traffic controller. This table includes airborne events where the loss of standard separation criteria has been validated.

All yearly totals and rates are tabulated for calendar year comparison and do not reflect performance target reporting, which are aligned to the fiscal year (October-September).

Originating source - Comprehensive Electronic Data Analysis and Reporting (CEDAR), Operations Network (OPSNET)

## **Air Traffic**

# Total Operations\* at Towers, Terminal Radar Approach Control (TRACONs) and Air Route Traffic Control Centers (ARTCCs)

#### Air Traffic in the NAS

	FY15	FY16	% Change
Air Traffic Control Tower (ATCT)	53,001,110	53,327,606	0.6%
Terminal Radar Approach Control Facilities (TRACON)	37,170,968	37,712,883	1.5%
Air Route Traffic Control Centers (ARTCC)	41,918,263	43,231,160	3.1%

<sup>\*</sup>Operations at TRACON and ARTCC facilities are also known as aircraft handled

Source:

OPSNET, Office of Performance Analysis (AJR-G)

## Total Operations by Air Traffic Control Tower (ATCT): Top 50

Rank	Airport Tower	Name	FY15	FY16	% Change
1	ATL	Atlanta	878,053	902,230	2.8%
2	ORD	Chicago	882,943	874,148	-1.0%
3	LAX	Los Angeles	687,179	722,537	5.1%
4	DFW	Dallas/Fort Worth	692,769	685,309	-1.1%
5	DEN	Denver	555,176	570,395	2.7%
6	LAS	Las Vegas	541,598	559,960	3.4%
7	CLT	Charlotte	549,491	549,643	0.0%
8	EWR	Newark	532,846	536,755	0.7%
9	IAH	Houston	513,445	485,111	-5.5%
10	JFK	JFK	464,472	480,976	3.6%
11	LGA	LaGuardia	470,469	470,885	0.1%
12	PHX	Phoenix	459,828	463,444	0.8%
13	SF0	San Francisco	436,826	454,565	4.1%
14	MIA	Miami	421,575	429,308	1.8%
15	MSP	Minneapolis	411,347	416,877	1.3%
16	PHL	Philadelphia	418,826	408,697	-2.4%
17	SEA	Seattle	384,053	418,764	9.0%
18	BOS	Boston	385,000	407,639	5.9%
19	DTW	Detroit	382,142	394,436	3.2%
20	DVT	Phoenix Deer Valley	373,550	374,567	0.3%
21	DCA	Washington	351,057	341,595	-2.7%
22	SLC	Salt Lake City	327,837	329,875	0.6%
23	APA	Denver Centennial	315,440	340,606	8.0%
24	MCO	Orlando	311,759	323,836	3.9%
25	LGB	Long Beach	319,775	314,194	-1.7%
26	GFK	Grand Forks	304,373	321,818	5.7%
27	HNL	Honolulu	315,049	307,768	-2.3%
28	DAB	Daytona Beach	302,137	312,125	3.3%
29	IAD	Dulles	307,046	299,210	-2.6%
30	SNA	John Wayne	286,821	313,527	9.3%

Rank	Airport Tower	Name	FY15	FY16	% Change
31	FLL	Fort Lauderdale	291,279	303,865	4.3%
33	ANC	Anchorage	290,802	287,432	-1.2%
34	TEB	Teterboro	255,933	300,057	17.2%
35	TMB	Miami Executive	264,174	283,701	7.4%
36	FFZ	Falcon Field	253,311	280,262	10.6%
37	PRC	Prescott Municipal	274,978	257,316	-6.4%
38	BWI	Baltimore	259,187	261,747	1.0%
39	MDW	Chicago Midway	258,104	256,398	-0.7%
40	PDX	Portland (OR)	245,988	257,792	4.8%
41	DAL	Dallas Love Field	236,213	252,572	6.9%
42	OAK	Oakland	229,680	244,792	6.6%
43	VNY	Van Nuys	241,194	232,335	-3.7%
44	IWA	Phoenix Mesa	222,045	244,104	9.9%
45	BFI	Boeing Field	219,641	242,133	10.2%
46	SAN	San Diego	227,344	229,567	1.0%
47	SEE	Gillespie Field	232,008	222,248	-4.2%
48	MEM	Memphis	223,958	229,274	2.4%
49	CHD	Chandler Municipal	226,302	219,528	-3.0%
50	HOU	Houston	219,558	224,730	2.4%

**Source:** OPSNET, Office of Performance Analysis (AJR-G)

# Total Operations\* by Terminal Radar Approach Control Facilities (TRACON): Top 50

Rank	TRACON	Name	FY15	FY16	% Change
1	SCT	Southern California	2,063,122	2,099,756	1.8%
2	N90	New York	1,892,552	1,949,388	3.0%
3	NCT	Northern California	1,558,229	1,586,639	1.8%
4	PCT	Potomac	1,417,578	1,426,859	0.7%
5	C90	Chicago	1,252,133	1,254,412	0.2%
6	D10	Dallas-Fort Worth	1,205,819	1,213,222	0.6%
7	A80	Atlanta	1,167,065	1,198,348	2.7%
8	MIA	Miami Tower	979,245	1,009,725	3.1%
9	190	Houston	939,698	913,611	-2.8%
10	D01	Denver	792,982	820,064	3.4%
11	P50	Phoenix	670,361	672,972	0.4%
12	F11	Central Florida	654,086	673,746	3.0%
13	CLT	Charlotte Tower	631,118	636,264	0.8%
14	A90	Boston	605,674	639,498	5.6%
15	L30	Las Vegas	585,590	605,514	3.4%
16	PHL	Philadelphia Tower	586,777	574,328	-2.1%
17	S46	Seattle	539,485	578,654	7.3%
18	M98	Minneapolis	521,513	525,247	0.7%
19	D21	Detroit	505,740	521,998	3.2%
20	HCF	Honolulu Control Facility	474,765	478,441	0.8%
21	TPA	Tampa Tower	449,312	456,195	1.5%
22	S56	Salt Lake City	404,545	408,675	1.0%
23	JAX	Jacksonville Tower	343,878	361,549	5.1%
24	SAT	San Antonio Tower	328,008	318,245	-3.0%
25	DAB	Daytona Beach Tower	324,924	317,406	-2.3%
26	CMH	Columbus Tower	314,573	325,673	3.5%
27	ZSU	San Juan CERAP	313,713	324,336	3.4%
28	T75	St. Louis	301,881	313,275	3.8%
29	P80	Portland	302,142	312,801	3.5%
30	P31	Pensacola	302,852	292,432	-3.4%
31	AUS	Austin Tower	290,614	303,650	4.5%
32	M03	Memphis	285,437	301,930	5.8%
33	PBI	Palm Beach Tower	280,591	282,212	0.6%
34	A11	Anchorage	276,715	270,295	-2.3%
35	PIT	Pittsburgh Tower	255,510	260,171	1.8%
36	BNA	Nashville Tower	247,811	264,992	6.9%
37	E10	High Desert	250,710	248,575	-0.9%
38	MSY	New Orleans Tower	249,652	248,248	-0.6%
39	IND	Indianapolis Tower	240,459	252,756	5.1%
40	CRP	Corpus Christi Tower	237,223	255,062	7.5%
41	RDU	Raleigh-Durham Tower	231,008	239,428	3.6%
42	CVG	Cincinnati Tower	222,426	230,738	3.7%

Rank	TRACON	Name	FY15	FY16	% Change
43	MKE	Milwaukee Tower	224,925	227,363	1.1%
44	RSW	Fort Myers Tower	217,761	225,797	3.7%
45	OKC	Oklahoma City Tower	214,814	222,389	3.5%
46	MCI	Kansas City Tower	209,103	211,004	0.9%
47	SDF	Standiford Tower	203,499	208,772	2.6%
48	R90	0maha	203,342	207,577	2.1%
49	Y90	Yankee	199,851	205,504	2.8%
50	ORF	Norfolk Tower	197,005	196,857	-0.1%

<sup>\*</sup>Operations at TRACON facilities are also known as aircraft handled **Source:** OPSNET, Office of Performance Analysis (AJR-G)

## Total Operations\* by Air Route Traffic Control Centers (ARTCC)

ARTCC	Name	FY15	FY16
ZTL	Atlanta	2,923,189	3,047,184
ZNY	New York	2,611,131	2,684,769
ZMA	Miami	2,577,234	2,546,654
ZDC	Washington	2,426,733	2,464,286
ZOB	Cleveland	2,304,949	2,387,361
ZJX	Jacksonville	2,272,655	2,393,729
ZAU	Chicago	2,258,724	2,397,472
ZFW	Fort Worth	2,273,465	2,299,251
ZHU	Houston	2,241,133	2,250,837
ZLA	Los Angeles	2,118,926	2,229,653
ZME	Memphis	2,032,575	2,099,894
ZID	Indianapolis	1,953,334	2,023,298
ZMP	Minneapolis	1,895,435	1,941,944
ZKC	Kansas City	1,717,758	1,751,235
ZDV	Denver	1,696,035	1,764,984
ZOA	Oakland	1,557,960	1,640,881
ZAB	Alburquerque	1,518,002	1,564,647
ZBW	Boston	1,472,544	1,523,097
ZLC	Salt Lake City	1,337,087	1,394,441
ZSE	Seattle	1,102,124	1,173,627
ZAN	Anchorage	579,351	582,494
HCF	Honolulu Control Facility	488,415	489,032
ZSU	San Juan	309,799	312,528
ZUA	Guam	249,705	267,862

<sup>\*</sup>Operations at ARTCC facilities are also know as aircraft handled **Source:** OPSNET, Office of Performance Analysis (AJR-G)

Flight Service – Total Flight Services = 2 (Flight Plans + Pilot Weather Briefs) + Aircraft Contacts

							ear 2015					
CONUS - AFSS Contract	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Se
Services via Specialist	371,921	302,699	279,695	269,379	251,010	319,039	331,870	347,986	352,446	383,551	350,440	32
						Fiscal Y	ear 2015					
Alaska Facility	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Se
Barrow (BRW)	3,799	3,429	3,467	2,095	3,352	3,437	3,605	3,723	4,618	6,271	7,090	(
Cold Bay (CDB)	1,884	1,564	2,015	2,670	1,585	2,117	1,992	2,440	2,742	2,531	2,887	
Dillingham (DLG)	4,061	3,291	2,941	3,281	3,457	4,533	4,637	5,721	7,715	8,142	7,472	
Kenai (ENA)	15,000	11,735	12,186	11,237	11,136	12,780	14,112	17,706	21,336	22,343	22,035	
Fairbanks (FAI)	8,404	5,838	7,350	5,410	6,215	8,429	7,963	8,591	13,132	14,569	15,001	1
Homer (HOM)	2,820	2,346	2,019	2,011	1,942	2,647	2,545	4,554	5,596	8,288	6,810	
Illiamna (ILI) *	946	0	0	0	0	0	0	1,091	4,458	6,848	7,149	
Juneau (JNU)	5,571	4,419	4,373	4,098	3,909	5,074	4,667	7,210	8,706	10,829	10,274	
Ketchikan (KTN)	5,276	4,200	3,378	3,294	3,214	4,466	4,566	12,360	17,930	20,298	20,582	
McGrath (MCG) *	0	0	0	0	0	0	0	1,173	1,985	1,596	1,645	
Nome (OME)	9,756	7,362	10,155	9,257	8,633	10,992	9,305	10,563	10,441	12,846	14,806	
Northway (ORT) *	0	0	0	0	0	0	0	520	1,005	1,195	1,082	
Kotzebue (OTZ)	7,042	5,574	5,418	5,931	5,352	7,370	6,364	6,887	6,416	8,337	7,834	
Palmer (PAQ)	1,871	1,242	1,083	1,489	1,259	1,880	1,827	2,800	3,335	3,171	3,299	
Deadhorse (SCC)	2,868	2,566	3,202	2,443	2,003	2,211	2,572	3,352	2,881	3,416	4,232	
Sitka (SIT)	2,884	2,255	2,253	2,304	2,389	2,952	3,063	3,861	4,407	5,167	5,194	
Talkeetna (TKA)	1,850	1,301	957	1,447	1,075	2,678	2,471	8,475	9,939	10,829	11,892	
						Fiscal V	ear 2016					
CONUS - AFSS Contract	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	S
Services via Specialist	315,006	272,125	236,872	229,190	240,886	270,626	275,545	284,917	301,106	325,029	296,686	2
ou need na opecialist	3.3,000	2,2,123	250,072	223,130	210,000			20 1,5 11	301,100	323,023	250,000	_
						Fiscal Yo						_
Alaska Facility	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	S
Barrow (BRW)	5,587	2,970	3,278	3,451	3,235	3,563	3,874	4,953	4,419	5,805	6,662	
Cold Bay (CDB)	2,689	1,978	2,066	2,354	1,815	1,598	2,227	3,013	2,671	2,317	3,018	
Dillingham (DLG)	6,164	3,677	4,034	4,020	3,930	4,869	5,166	5,482	9,161	7,778	8,273	
Kenai (ENA)	13,727	8,988	10,617	9,563	9,293	12,209	12,528	18,073	18,896	23,053	20,113	
Fairbanks (FAI)	8,683	7,894	6,382	6,545	6,740	8,989	8,242	9,080	12,264	13,184	13,451	
							2,718	4,145	5,770	8,091	7,922	
Homer (HOM)	2,642	1,828	1,882	1,844	1,740	2,346					7,504	
Homer (H0M) Illiamna (ILI) *	1,977	0	0	0	0	0	0	2,342	5,552	8,470		
Homer (H0M) Illiamna (ILI) * Juneau (JNU)	1,977 6,516	0 5,621	0 5,263	0 5,423	0 5,608	0 6,262	0 5,897	8,057	10,321	11,274	11,306	
Homer (H0M) Illiamna (ILI) * Juneau (JNU) Ketchikan (KTN)	1,977 6,516 4,716	0 5,621 3,796	0 5,263 3,524	0 5,423 2,961	0 5,608 3,061	0 6,262 4,713	0 5,897 5,383	8,057 11,206	10,321 17,142	11,274 21,632	11,306 22,394	
Homer (HOM) Illiamna (ILI) * Juneau (JNU) Ketchikan (KTN) McGrath (MCG) *	1,977 6,516 4,716 0	0 5,621 3,796 0	0 5,263 3,524 0	0 5,423 2,961 0	0 5,608 3,061 0	0 6,262 4,713 1,067	0 5,897 5,383 0	8,057 11,206 1,620	10,321 17,142 1,430	11,274 21,632 1,529	11,306 22,394 1,791	
Homer (HOM) Illiamna (ILI) * Juneau (JNU) Ketchikan (KTN) McGrath (MCG) * Nome (OME)	1,977 6,516 4,716 0 11,712	0 5,621 3,796 0 9,634	0 5,263 3,524 0 7,816	0 5,423 2,961 0 6,872	0 5,608 3,061 0 6,804	0 6,262 4,713 1,067 7,922	0 5,897 5,383 0 8,932	8,057 11,206 1,620 8,266	10,321 17,142 1,430 10,189	11,274 21,632 1,529 12,143	11,306 22,394 1,791 10,239	
Homer (HOM) Illiamna (ILI) * Juneau (JNU) Ketchikan (KTN) McGrath (MCG) * Nome (OME) Northway (ORT) *	1,977 6,516 4,716 0 11,712	0 5,621 3,796 0 9,634	0 5,263 3,524 0 7,816	0 5,423 2,961 0 6,872	0 5,608 3,061 0 6,804	0 6,262 4,713 1,067 7,922 0	0 5,897 5,383 0 8,932	8,057 11,206 1,620 8,266 668	10,321 17,142 1,430 10,189 760	11,274 21,632 1,529 12,143 685	11,306 22,394 1,791 10,239 1,078	
Homer (HOM)  Illiamna (ILI) *  Juneau (JNU)  Ketchikan (KTN)  McGrath (MCG) *  Nome (OME)  Northway (ORT) *  Kotzebue (OTZ)	1,977 6,516 4,716 0 11,712 0 8,026	0 5,621 3,796 0 9,634 0 5,764	0 5,263 3,524 0 7,816 0 5,377	0 5,423 2,961 0 6,872 0 6,160	0 5,608 3,061 0 6,804 0 5,727	0 6,262 4,713 1,067 7,922 0 6,151	0 5,897 5,383 0 8,932 0 6,338	8,057 11,206 1,620 8,266 668 7,557	10,321 17,142 1,430 10,189 760 8,011	11,274 21,632 1,529 12,143 685 7,058	11,306 22,394 1,791 10,239 1,078 8,091	
Homer (HOM) Illiamna (ILI) * Juneau (JNU) Ketchikan (KTN) McGrath (MCG) * Nome (OME) Northway (ORT) * Kotzebue (OTZ) Palmer (PAQ)	1,977 6,516 4,716 0 11,712 0 8,026 1,835	0 5,621 3,796 0 9,634 0 5,764 1,085	0 5,263 3,524 0 7,816 0 5,377 1,168	0 5,423 2,961 0 6,872 0 6,160	0 5,608 3,061 0 6,804 0 5,727 1,739	0 6,262 4,713 1,067 7,922 0 6,151 2,310	0 5,897 5,383 0 8,932 0 6,338 2,889	8,057 11,206 1,620 8,266 668 7,557 4,416	10,321 17,142 1,430 10,189 760 8,011 3,387	11,274 21,632 1,529 12,143 685 7,058 4,058	11,306 22,394 1,791 10,239 1,078 8,091 3,518	
Homer (HOM) Illiamna (ILI) * Juneau (JNU) Ketchikan (KTN) McGrath (MCG) * Nome (OME) Northway (ORT) * Kotzebue (OTZ) Palmer (PAQ) Deadhorse (SCC)	1,977 6,516 4,716 0 11,712 0 8,026 1,835 2,598	0 5,621 3,796 0 9,634 0 5,764 1,085 2,213	0 5,263 3,524 0 7,816 0 5,377 1,168 2,372	0 5,423 2,961 0 6,872 0 6,160 1,588 2,271	0 5,608 3,061 0 6,804 0 5,727 1,739 2,042	0 6,262 4,713 1,067 7,922 0 6,151 2,310 3,764	0 5,897 5,383 0 8,932 0 6,338 2,889 2,377	8,057 11,206 1,620 8,266 668 7,557 4,416 2,332	10,321 17,142 1,430 10,189 760 8,011 3,387 2,339	11,274 21,632 1,529 12,143 685 7,058 4,058 2,566	11,306 22,394 1,791 10,239 1,078 8,091 3,518 3,984	
Homer (HOM) Illiamna (ILI) * Juneau (JNU) Ketchikan (KTN) McGrath (MCG) * Nome (OME) Northway (ORT) * Kotzebue (OTZ) Palmer (PAQ)	1,977 6,516 4,716 0 11,712 0 8,026 1,835	0 5,621 3,796 0 9,634 0 5,764 1,085	0 5,263 3,524 0 7,816 0 5,377 1,168	0 5,423 2,961 0 6,872 0 6,160	0 5,608 3,061 0 6,804 0 5,727 1,739	0 6,262 4,713 1,067 7,922 0 6,151 2,310	0 5,897 5,383 0 8,932 0 6,338 2,889	8,057 11,206 1,620 8,266 668 7,557 4,416	10,321 17,142 1,430 10,189 760 8,011 3,387	11,274 21,632 1,529 12,143 685 7,058 4,058	11,306 22,394 1,791 10,239 1,078 8,091 3,518	1

## Fiscal Year (FY)/Number of Delayed Flights/Percentage Change

	Fiscal Year	Number of Delayed Operations	% Change
2012		277,159	n/a
2013		333,463	20.3%
2014		319,515	-4.2%
2015		333,818	4.5%
2016		342,294	2.5%

Source:

OPSNET, Office of Performance Analysis (AJR-G)

## **Percent Share of Delay Causes**

### **Percent Share of Delay Causes**

Month	Total Delays	Weather	Volume	Equip- ment	Runway	Other
0ct-11	19,284	67%	21%	1%	5%	6%
Nov-11	21,357	72%	19%	0%	4%	4%
Dec-11	18,698	72%	16%	4%	3%	5%
Jan-12	20,009	66%	15%	0%	14%	5%
Feb-12	14,618	63%	25%	0%	2%	10%
Mar-12	23,146	75%	16%	0%	4%	6%
Apr-12	15,789	64%	22%	0%	6%	8%
May-12	31,314	76%	13%	2%	4%	4%
Jun-12	23,988	63%	20%	0%	9%	8%
Jul-12	36,097	86%	9%	0%	2%	3%
Aug-12	28,993	76%	13%	1%	7%	4%
Sep-12	23,866	62%	15%	0%	18%	6%
Oct-12	23,110	61%	20%	1%	9%	9%
Nov-12	13,708	60%	27%	0%	4%	9%
Dec-12	22,467	63%	22%	3%	8%	4%
Jan-13	16,240	72%	17%	0%	5%	5%
Feb-13	17,031	72%	20%	1%	2%	5%
Mar-13	21,697	65%	27%	0%	5%	3%
Apr-13	37,117	55%	16%	0%	8%	21%
May-13	35,740	75%	15%	1%	4%	4%
Jun-13	46,693	84%	10%	0%	4%	2%
Jul-13	46,715	76%	13%	0%	3%	8%
Aug-13	31,101	76%	17%	1%	2%	4%
Sep-13	21,844	64%	22%	0%	9%	5%
Oct-13	21,066	60%	28%	0%	7%	6%
Nov-13	16,316	58%	29%	0%	6%	6%
Dec-13	21,809	58%	31%	0%	7%	4%
Jan-14	15,385	55%	25%	2%	11%	7%
Feb-14	19,755	63%	24%	0%	7%	5%
Mar-14	20,227	52%	31%	0%	11%	6%
Apr-14	25,912	50%	22%	1%	23%	4%
May-14	35,218	66%	15%	2%	13%	4%

#### **Percent Share of Delay Causes**

Month	Total Delays	Weather	Volume	Equip- ment	Runway	Other
Jun-14	43,059	75%	14%	0%	7%	4%
Jul-14	37,967	75%	16%	0%	5%	4%
Aug-14	34,499	73%	17%	0%	4%	6%
Sep-14	28,302	50%	21%	9%	8%	12%
Oct-14	31,940	44%	17%	26%	5%	7%
Nov-14	20,647	63%	27%	0%	5%	5%
Dec-14	28,206	59%	35%	0%	1%	4%
Jan-15	18,571	63%	29%	1%	2%	5%
Feb-15	18,553	59%	33%	0%	1%	6%
Mar-15	22,326	50%	25%	0%	18%	6%
Apr-15	24,416	62%	26%	0%	7%	5%
May-15	31,125	70%	20%	1%	4%	6%
Jun-15	41,560	79%	14%	0%	3%	4%
Jul-15	38,308	67%	15%	0%	12%	6%
Aug-15	32,711	58%	23%	1%	13%	5%
Sep-15	25,455	61%	22%	0%	9%	7%
Oct-15	21,893	56%	30%	1%	5%	8%
Nov-15	21,376	59%	30%	1%	3%	7%
Dec-15	29,087	61%	31%	0%	2%	5%
Jan-16	18,035	54%	39%	1%	1%	5%
Feb-16	20,989	66%	26%	0%	3%	5%
Mar-16	28,237	67%	26%	0%	3%	4%
Apr-16	22,683	65%	27%	0%	4%	4%
May-16	28,455	71%	22%	0%	2%	5%
Jun-16	39,238	72%	19%	0%	5%	4%
Jul-16	43,881	78%	15%	0%	3%	4%
Aug-16	41,335	74%	16%	2%	3%	5%
Sep-16	27,085	64%	23%	0%	8%	5%

Source:

OPSNET, Office of Performance Analysis (AJR-G)

## **Airspace Modernization**

The FAA is modernizing the nation's airspace from one centered largely on analog, ground-based technology to one that takes advantage of state-of-the-art, satellite-based and digital systems. This transformation from ground-based to satellite-enabled navigation and aircraft tracking, from voice to digital communication, and from limited data exchange to fully integrated information management (among many other improvements) is changing how we see, navigate and communicate in our nation's skies.

Many of these technologies and procedures are significantly improving safety, capacity and efficiency on runways and in our skies while reducing fuel burn, carbon emissions and noise:

#### **Data Communications (Data Comm)**

Data Comm revolutionizes communication between air traffic controllers and pilots. The new technology supplements radio voice messages, enabling controllers to transmit typed departure clearances that pilots can read and accept with the touch of a button. This translates directly into safer, more efficient operations, helping aircraft take off sooner and reach their destinations on time.

Data Comm tower service was successfully deployed, under budget and almost two-and-a-half years ahead of schedule, at 55 airports. Due to its success, air carriers requested and the FAA approved the deployment of Data Comm at seven more airports. When en route services are deployed, the system will be used for traffic at cruising altitude, and more kinds of messages can be exchanged.

Click on the following link for more information about Data Comm:

https://www.faa.gov/nextgen/update/progress\_and\_plans/data\_comm/

#### Performance Based Navigation (PBN)

PBN routes and procedures are primarily satellite-based and not bound to traditional ground-based navigation aids. Aircraft are thus able to fly more directly from Point A to Point B. PBN procedures use satellite-based navigation and on-board aircraft equipment to navigate with greater precision through all phases of flight. They enhance safety through repeatable, predictable flight paths, improve airport arrival rates and reduce fuel burn. The FAA has published more than 9,000 PBN procedures and routes.

Click on the following link for more information about PBN:

https://www.faa.gov/nextgen/update/progress and plans/pbn/

#### **Automatic Dependent Surveillance-Broadcast (ADS-B)**

ADS-B, the satellite-enabled successor to radar, relies on GPS signals to determine and report aircraft position. It is replacing ground-based radars as the primary means of aircraft surveillance. ADS-B is one of the most important underlying technologies in the modernization effort.

The nationwide infrastructure for ADS-B was completed in April 2014. This means that the nation's airspace system now has satellite-based coverage wherever radar coverage exists — as well as in some areas that lack radar coverage, such as certain low-altitude airspace, the Gulf of Mexico and Alaska. By Jan. 1, 2020, aircraft operating in most controlled airspace (airspace in which transponders are required today) will be required to have ADS-B Out, which broadcasts aircraft position. Aircraft that fly only in uncontrolled airspace where no transponders are required are exempt from the mandate, as are aircraft without electrical systems, such as balloons and gliders. ADS-B In, which is not mandatory, gives pilots cockpit displays that show the position of nearby aircraft, weather conditions and other flight information. ADS-B In improves pilot situational awareness and greatly enhances safety, particularly for general aviation aircraft, which usually have no other system aboard for spotting nearby air traffic.

Click on the following link for more information about ADS-B:

https://www.faa.gov/nextgen/update/progress and plans/adsb/

Click on the following link for the latest ADS-B equipage numbers.

https://www.faa.gov/nextgen/equipadsb/levels/

#### **En Route Automation Modernization (ERAM)**

ERAM, which is fully deployed at the 20 en route centers across the country where controllers handle high-altitude traffic, processes flight and radar data, serves as a platform for communications, and generates data for controllers' screens. The technology enables controllers to track up to 1,900 aircraft at a time – an increase from 1,100 under the previous system. ERAM can also track aircraft using ADS-B.

#### **Terminal Automation Modernization Replacement (TAMR)**

TAMR is an FAA program that is fielding a technology advancement akin to ERAM, only for terminal, not en route, airspace, which is the airspace around major airports. The Standard Terminal Automation Replacement System (STARS) combines multiple air traffic control technologies into a single, state-of-the-art platform. STARS is now in use at 70 terminal radar approach control (TRACON) facilities, including the "Big 11" TRACONs that control 80 percent of all traffic arriving and departing from U.S. airports.

Click on the following link for more information about ERAM and TAMR:

https://www.faa.gov/nextgen/update/progress\_and\_plans/ automation/

#### **System Wide Information Management (SWIM)**

SWIM is one of the most important programs in the FAA's modernization effort. One of the keys to a safe and efficient flight is to give the people responsible for that flight the right information at the right time. As such, SWIM provides near real-time, accurate flight, surveillance, weather and aeronautical information in a flexible, secure digital architecture. It is the data-sharing backbone of modernization: it receives information collected independently, combines it and distributes it as data to authorized users in the aviation community. This provides common situational awareness and facilitates collaborative decision making – an integral part of delivering aircraft safely to their destinations on time.

Click on the following link for more information about SWIM:

https://www.faa.gov/nextgen/update/progress and plans/swim/

# **Unmanned Aircraft Systems (UAS)**

### **UAS Metrics**

Total Registrations	947,970
Hobbyists	845,170
Non-Hobbyists	102,800
Remote Pilot Certificates Issued	70,043
Remote Phot Certificates issued	70,045
Part 107 Waivers Issued	1,208
Top Five Waiver Requests (Percent)	
Night Operations	70%
Operations Over People	29%
BVLOS	17%
Altitude	9%
Ops from Moving Vehicle	7%
	10.005
Airspace Authorizations Issued	10,965

**BVLOS**: Beyond the Visionary Loss of Sight **Source**: Office of Unmanned Aircraft Systems,

As of: Nov. 29, 2017

## **Airports**

## **Definitions of Landing Facilities**

#### Airport:

An area of land or water which is used, or intended to be used, for the aircraft takeoff and landing.

https://www.faa.gov/airports/resources/publications/orders/compliance\_5190\_6/

#### **Heliport:**

The area of land, water, or a structure used or intended to be used for the landing and takeoff of helicopters, together with appurtenant buildings and facilities.

https://www.faa.gov/documentLibrary/media/Advisory\_Circular/150 5390 2c.pdf

#### **Seaplane Base:**

A designated area of water used or intended to be used for the landing and takeoff of seaplanes and shore side access.

https://www.faa.gov/documentLibrary/media/Advisory\_Circular/draft-150-5395-1B-Seaplane-Bases.pdf

#### **Civil Public Use Part 139:**

14 CFR Part 139 requires the FAA to issue airport operating certificates to airports that---

- Serve scheduled and unscheduled air carrier aircraft with more than 30 seats;
- Serve scheduled air carrier operations in aircraft with more than 9 seats but less than 31 seats; and
- The FAA Administrator requires to have a certificate.

https://www.faa.gov/airports/airport\_safety/part139\_cert/what-is-part-139/

#### **Public Use Airports:**

A public airport or a privately owned airport used or intended to be used for public purposes.

https://www.faa.gov/airports/resources/publications/orders/compliance 5190 6/

#### **Private Use Airports:**

A publicly owned or privately owned airport not open to the public.

https://www.faa.gov/airports/resources/publications/orders/compliance\_5190\_6/

#### **Number of U.S. Airports**

	2016	2015	2014
Total Airports	19,576	19,524	19,299
Airports	13,154	13,156	13,089
Heliports	5,763	5,709	5,553
Seaplane Bases	497	493	488
Gliderports	35	35	36
Balloonports	13	13	13
Ultralight Flightparks	114	118	120
Total Civil Public Use Airports	5,119	5,136	5,145
Civil Public Use Part 139	529	531	537
Civil Public Uses Non-Part 139	4,590	4,605	4,608
Civil Public Use Airports Abandoned	20	14	15
Newly Established Public Use	4	8	10
Total Civil Private Use Airports	14,168	14,096	13,863
Civil Private Use Airports Abandoned	222	112	307
Newly Established Private Use	305	352	171
Military Airports	283	287	286

Source: Office of Airports, 202-267-9590

## **Aircraft**

## **Number of Aircraft by Carriers**

Type of Carrier	Count of Aircraft
Domestic, flag, supplemental, and cargo air carriers aircraft	7,146
Commuters	11,057
Air Taxis	324
TOTAL	18,527

## U.S. General Aviation and Part 135 Activity (Calendar Years)

		Estimated Active Aircraft (Thousands)		ed Hours Millions)
	2015	2014	2015	2014
TOTAL	210.0	204.4	24.1	23.3
By Type Aircraft				
Piston	141.1	139.2	12.8	12.0
Turboprop	9.7	9.8	2.5	2.6
Jet	13.4	12.4	3.8	3.9
Rotary Wing	10.5	10.0	3.3	3.2
Experimental	27.9	26.2	1.3	1.2
Special Light Sport	2.4	2.2	0.2	0.2
Other	4.9	4.7	0.2	0.2
By Type Flying				
Corporate	11.3	11.9	2.4	2.8
Business	15.9	15.8	1.8	1.7
Personal	139.7	135.7	7.4	6.9
Instructional	15.7	13.2	4.6	3.8
Aerial Application	3.3	3.1	0.9	0.9
Aerial Observation	5.5	6.0	1.4	1.5
Aerial Other	0.9	0.9	0.2	0.2
External Load	0.3	0.3	0.2	0.2
Other Work	1.3	1.2	0.2	0.3
Sightseeing	1.2	1.7	0.2	0.2
Air Tours	0.5	0.4	0.3	0.3
Air Taxi	6.5	6.9	2.5	2.6
Air Medical Services	2.4	2.5	0.8	0.8

**Source:** Office of Aviation Safety, (202) 267-3131

# Aircraft Certification Service, Aircraft Certification Mission and Program Files

	FY15	FY16	*FY17
Type Certificates/Supplemental Type Certificates Issued	1638	2054	1533
Other Design Approvals Issued	3249	3290	1519
Production Approvals (Including Amendments) Issued	36	39	29
Airworthiness Certificates Issued	889	735	311
New Airworthiness Directives (AD) Issued	124	150	106
*New Designees (Representative of the Administrator) Appointed	-	-	-
Total Active Designees	1556	1571	1491

<sup>\*</sup>FY2017 thru April Only. Counted twice a year.

As of: 09/06/2017

**Source:** AIR-9E0, (202) 267-3948

<sup>\*</sup>New Designees are no longer tracked.

# **Industry Trends**

# Forecast for U.S. Commercial Air Carriers Total Revenue Passenger Enplanements

Fiscal Year	Passengers
FY 2017	838 Million
FY 2021	916 Million

## Historical U.S. Commercial Air Carriers Total Revenue Passenger Enplanements

Fiscal Year	Passengers
FY 2015	786 Million
FY 2016	820 Million

## National Airspace System (NAS) On-Time Performance

Fiscal Year	NAS On-Time Performance
FY 2015	90.7%
FY 2016	92.0%

Percent of total flights net delays, diversions and cancellations.

**Source:** ASPM and ASQP, Office of Performance Analysis (AJR-G)

# **Commercial Space Transportation**

#### **Licensed Commercial Launches**

	FY2018	FY2017	FY2016	FY2015	FY2014
Licensed Commercial Launches					
TOTAL	4	18	11	8	12
Number of Orbital Launches	5	18	11	7	12
Number of Suborbital Launches	0	0	0	1	0
By Launch Vehicle Type					
Antares Configuration 120	0	0	0	0	2
Antares Configuration 130	0	0	0	1	0
Antares Configuration 230	1	1	0	0	0
Atlas V-401	0	2	2	0	1
Atlas V-421	0	0	1	0	0
Atlas V-431	0	1	0	0	0
Delta IV Heavy	0	0	0	1	0
Dragon Pad Abort Test Vehicle	0	0	0	1	0
Electron	0	1	0	0	0
Falcon 9	0	0	0	1	3
Falcon 9 Version 1.1	0	0	0	4	4
Falcon 9 Version 1.2	3	12	8	0	0
Minotaur C	1	0	0	0	0
Minotaur I	0	0	0	0	1
Minotaur IV	0	1	0	0	0
Zenit-3SL	0	0	0	0	1
By Launch Site					
Cape Canaveral Air Force Station	0	5	11	7	7
Kennedy Space Center	2	7	0	0	0
Mahia Peninsula, New Zealand	0	1	0	0	0
Mid-Atlantics Regional Spaceport	0	1	0	1	2
Pacific Ocean	0	0	0	0	1
Vandenberg Air Force Base	2	4	0	0	1
Wallops Flight Facility	1	0	0	0	1

## **Experimental Permit Launches**

	FY2018	FY2017	FY2016	FY2015	FY2014
Experimental Permit Launches					
TOTAL	0	1	4	2	7

### **Re-entries**

	FY2018	FY2017	FY2016	FY2015	FY2014
Re-entries					
TOTAL	0	3	2	4	1
By Vehicle					
Dragon	0	3	2	3	1
Orion spacecraft	0	0	0	1	0

### **Active Launch Site Operator Licenses**

Operator	Site	
Harris Corporation	California Spaceport, California	
Oklahoma Space Industry Development Authority	Burns Flat, Oklahoma	
Space Florida	Cape Canaveral Air Force Station, Florida	
Houston Airport System	Ellington Airport, Texas	
Jacksonville Aviation Authority	Cecil Field, Florida	
Midland International Airport	Midland International Airport, Texas	
Mojave Air & Space Port	Mojave Air & Space Port, California	
New Mexico Spaceflight Authority	Spaceport America, New Mexico	
Alaska Aerospace Development Corporation	Pacific Spaceport Complex, Alaska	
Virginia Commercial Space Flight Authority	Wallops Flight Facility, Virgina	

Source: provided on 10-24-17; by FAA Office of Commercial Space Transportation, 202-267-7793

# **Airmen**

## Airmen Certification Service – M70 Active Pilots Summary (Grand Totals, November 1, 2017)

	Student Pilot	Sport Pilot	Recreational Pilot	Private Pilot	Commercial Pilot	Airline Transport Pilot	TOTAL US PILOTS	Foreign Based Pilot	Flight Instructor	Auth In- structor	Remote Pilot	Flight Engineer	Foreign Based Flight Engineer	Row TOTAL (excludes Remote Pilots; double counting CFIs and Flight Engineers)
State/US Territory Totals:	135,295	6,023	157	167,444	98,625	156,867	564,411	6,945	103,153	17	62,062	34,540	4	709,070
Foreign Address Totals:	10,738	24	0	7,867	15,869	7,946	42,444	31,485	2,871	0	511	193	8	77,001
GRAND TOTALS:	146,033	6,047	157	175,311	114,494	164,813	606,855	38,430	106,024	17	62,573	34,733	12	786,071

## **FAA Resources**

## Washington Headquarters, Routing Symbols, Officials

Routing Symbol	Officials
AOA	Administrator
	Michael P. Huerta, 202-267-3111, Michael.Huerta@faa.gov
	Christopher J. Rocheleau, Chief of Staff, 202-267-3180, Chris.Rocheleau@faa.gov
	Max Slutsky, Senior Advisor, 202-267-9869, Max.Slutsky@faa.gov
ADA	Deputy Administrator
	Daniel K. Elwell, 202-267-8111, Daniel.Elwell@faa.gov
	Elisabeth Smeda, Senior Advisor, 202-267-6541, Elisabeth.Smeda@faa.gov
	Senior Advisor, Unmanned Aircraft Systems Integration
	Vacant
AAE	Office of Audit and Evaluation
	Director, H. Clayton Foushee, 202-267-9000, Clay.Foushee@faa.gov
AJ0	Chief Operating Officer, Air Traffic Organization
	Teri L. Bristol, 202–267–1240, Teri.Bristol@faa.gov
	Timothy Arel, Deputy Chief Operating Officer, 202-267-1240, Timothy.Arel@faa.gov
AJG	Management Services
	Vice President, Lisbeth L. Mack, 202-267-9341, Lisbeth.Mack@faa.gov
AJI	Safety and Technical Training
	Vice President, Terry L. Biggio, 202-267-4957, Terry.Biggio@faa.gov
AJM	Program Management Organization
	Vice President, Kristen G. Burnham, 202-267-3280, Kristen.Burnham@faa.gov
AJR	Systems Operations
	Vice President, Michael C. Artist, 202-267-0753, Mike.C.Artist@faa.gov
AJT	Air Traffic Services
	Vice President, Glen Martin, 202-267-0896, Glen.Martin@faa.gov
AJV	Mission Support Services
	Vice President, Elizabeth L. Ray, 202-267-8261, Elizabeth.Ray@faa.gov
AJW	Technical Operations Services
	Vice President, Vaughn A. Turner, 202-267-3366, Vaughn.Turner@faa.gov
ACR	Assistant Administrator for Civil Rights
	Mamie K. Mallory, 202-267-8087, Mamie.Mallory@faa.gov
	Deputy Assistant Administrator, Courtney L. Wilkerson, 202-267-3264, Courtney.Wilkerson@faa.gov
AFN	Assistant Administrator for Finance and Management
	Victoria B. Wassmer, 202-267-8627, Victoria.Wassmer@faa.gov
ABA	Deputy Assistant Administrator for Financial Services/CFO
	Mark S. House, 202-267-9105, Mark.House@faa.gov
ACQ	Deputy Assistant Administrator for Acquisition and Business
	Nathan S. Tash, 202-267-7222, Nathan.Tash@faa.gov
AIT	Deputy Assistant Administrator for Information and Technology
	Tina M. Amereihn, 202-267-8627, Tina.Amereihn@faa.gov
ARC	Deputy Assistant Administrator for Regions and Center Operations
	Vacant

Routing Symbol	Officials
AGC	Chief Counsel
	Charles Trippe, 202-267-3222, Charles.Trippe@faa.gov
	Principal Deputy Chief Counsel
	Patricia McNall, 202-267-3773, Pat.McNall@faa.gov
AGI	Assistant Administrator for Government and Industry Affairs
	Christopher Brown, 202-267-3277, Chris.C.Brown@faa.gov
AHR	Assistant Administrator for Human Resource Management
	Annie B. Andrews, 202-267-3456, Annie.B.Andrews@faa.gov
	Deputy Assistant Administrator, Gwendolyn DeFilippi, 202-267-3456, Gwendolyn DeFilippi@faa.gov
AHA	Office of the Accountability Board
	Executive Director, Tammy Van Keuren, 202-267-3817, Tammy.Van.Keuren@faa.gov
AHB	Director, Compensation, Benefits and Worklife, Elizabeth A. Dayan, 202-267-4028, Elizabeth. Dayan@faa.gov
AHD	Director, Talent Development (Chief Learning Officer), Melissa King, 202-267-9041, Melissa. King@faa.gov
AHF	Director, Human Resource Services, M. Renee Coates, 202-267-3850, Renee.Coates@faa.gov
AHL	Director, Labor and Employee Relations, Laura R. Glading, 202-267-6268. Laura.Glading@faa.gov
ANG	Assistant Administrator for NextGen
	Pamela D. Whitley, Acting, 202-267-7111, Pamela.Whitley@faa.gov
	Deputy Assistant Administrator, Michele M. Merkle, Acting, 202-267-2708, Michele.Merkle@faa.gov
	Director, Joint Program Development Office, Karlin R. Toner, 202-267-0104, Karlin.Toner@faa.gov
	Chief Scientific and Technical Advisor for Architecture and Systems Development, Steven W. Bradford, 202-267-1218, Steve.Bradford@faa.gov
	Chief Scientific and Technical Advisor for NAS System Software, Vacant
	Director, NAS Systems Engineering Service Office, Michele M. Merkle, 202-267-2708, Michele. Merkle@faa.gov
	Director, Research and Technology Development, Paul V. Fontaine, 202-267-9251, Paul. Fontaine@faa.gov
	Director, Interagency Planning Office, Roosevelt Mercer, Jr., 202-267-4963, Roosevelt.Mercer@faa.gov
AOC	Assistant Administrator for Communications
	Gregory Martin, 202-267-3454, Gregory.Martin@faa.gov
	Deputy, Public Affairs, Laura J. Brown, 202-267-3455, Laura.J.Brown@faa.gov
	Deputy, Corporate Communications, Jeannie Shiffer, 202-267-8859, Jeannie.Shiffer@faa.gov
APL	Assistant Administrator for Policy, International Affairs and Environment
	Vacant
	Assistant Administrator for Policy, International Affairs, Environment and Energy
	Jennifer Solomon, 202-267-3927, Jennifer.Solomon@faa.gov
	Deputy, Assistant Administrator, Carl E. Burleson, 202-267-7954, Carl.Burleson@faa.gov
AEE	Office of Environment and Energy
	Executive Director, Kevin W. Welsh, 202-267-1451, Kevin.Welsh@faa.gov

Routing Symbol	Officials	Routing Symbol
API	Office of International Affairs	Jiii.
	Executive Director, Christopher Rocheleau, Chris.Rocheleau@faa.gov	AQS
APO	Office of Aviation Policy and Plans	
	Nancy E. Shellabarger, 202-267-3274, Nan.Shellabarger@faa.gov	ARM
ASH	Associate Administrator for Security and Hazardous Materials	
	Claudio Manno, 202-267-7211, Claudio.Manno@faa.gov	AUS
	Deputy, Angela H. Stubblefield, 202-267-7211, Angela.H.Stubblefield	
ADG	Office of Hazardous Materials	AVP
	Director, Janet McLaughlin, 202-267-9419, Janet.McLaughlin@faa.gov	
AEO	Office of National Security Programs and Incident Response	AVP
	Director, Joshua P. Holtzman, 202-267-7980, Joshua.Holtzman@faa.gov	
AHW	Office of Joint Security and Hazardous Materials Office, West	
	Director, Patricia A. Pausch, 425-227-2705, Patricia.Pausch@faa.gov	Major Fie
AXI	Director, Office of Investigations	Doubling
	Michelle Root, 425-227-2715, Michelle.Root@faa.gov	Routing Symbol
AXM	Director, Office of Business and Mission Services	AAL
	Donald Faulkner, 202-267-8005, Don.Faulkner@faa.gov	
AXP	Director, Office of Personnel Security	
	Gerald K. Moore, 310-725-3730, Gerald.Moore@faa.gov	
ARP	Associate Administrator for Airports	
	Winsome Lenfert, Acting, 202-267-9590, Winsome.A.Lenfert@faa.gov	ACE
	Deputy, Winsome Lenfert, 202-267-9590, Winsome.A.Lenfert@faa.gov	
AAS	Office of Airport Safety and Programming	
	Director, John R. Dermody, 202-267-3053, John.Dermody@faa.gov	
ACO	Office of Airport Compliance and Management Analysis	
	Director, Kevin Willis, 202-267-8741, Kevin.Willis@faa.gov	AEA
APP	Office of Airport Planning and Programming	
	Director, Brian E. Black, 202-267-8775, Elliott.Black@faa.gov	
AST	Associate Administrator for Commercial Space Transportation	
	Dr. George C. Nield, 202-267-7793, George.Nield@faa.gov	
	Deputy, Kelvin Coleman, 202-267-7793, Kelvin.Coleman@faa.gov	AGL
	Strategic Operations for Commercial Space Transportation	
	Director, Dorothy Reimold, 202-267-7635, Dorothy.Reimold@faa.gov	
AVS	Associate Administrator for Aviation Safety	
	Ali Bahrami, 202-267-3131, Ali.Bahrami@faa.gov	
	Deputy Associate Administrator	AMC
	John Hickey, 202-267-7804, John.Hickey@faa.gov	
AAM	Office of Aerospace Medicine	
	Michael A. Berry, MD, 202-267-3535, Michael.Berry-MD@faa.gov	
AFX	Flight Standards Service	
	Executive Director, John S. Duncan, 202-267-8237, John.S.Duncan@faa.gov	ANE
AIR	Aircraft Certification Service	
	Executive Director, Dorenda D. Baker, 2022677270, Dorenda.Baker@faa.gov	
AOV	Office of Air Traffic Safety Oversight Service	

Routing Symbol	Officials
	Vacant
AQS	Office of Quality, Integration and Executive Services
	Director, Sunny Lee-Fanning, 202-267-9664. Sunny.Lee-Fanning@faa.gov
ARM	Office of Rulemaking
	Director, Lirio L. Liu, 202-267-9677, Lirio.Liu@faa.gov
AUS	Office of Unmanned Aircraft Systems
	Director, Earl A. Lawrence, 202-267-0168, Earl.Lawrence@faa.gov
AVP	Office of Accident Investigation and Prevention
	Director, Michael J. O'Donnell, 202-267-8776, Michael.J.Odonnell@faa.gov
AVP	Office of Accident Investigation and Prevention
	Director, Michael J. O'Donnell, 202-267-8776, Michael.J.Odonnell@faa.gov

## Major Field Organizations, Routing Symbols, Officials

Routing Symbol	Officials
AAL	Alaskan Region, Regional Administrator
	Kerry B. Long, 907-271-5645, Kerry.Long@faa.gov
	222 West 7th Avenue, Box 14
	Anchorage, AL 99513-7587
	Duty Officer, 907-271-5936
ACE	Central Region, Regional Administrator
	Joseph N. Miniace, 816-329-3050, Joseph.N.Miniace@faa.gov
	901 Locust
	Kansas City, Missouri 64106-2641
	Duty Officer, 816-426-4600
AEA	Eastern Region, Regional Administrator
	Marie Kennington-Gardiner, Acting, 718-977-6750, Marie.Kennington-Gardiner@faa.gov
	1 Aviation Plaza
	Jamaica, New York 11434-4809
	Duty Officer, 718-553-3100
AGL	Great Lakes Region, Regional Administrator
	Christina Drouet, Acting, 847-294-7294, Christina.Drouet@faa.gov
	2300 East Devon Avenue
	Des Plaines, Illinois 60018
	Duty Officer, 847-294-7410
AMC	Mike Monroney Aeronautical Center, Director
	Michelle Coppedge, 405-954-4521, Michelle.Coppedge@faa.gov
	6500 South MacArthur
	Oklahoma City, Oklahoma 73125
	Duty Officer, 202-267-8627
ANE	New England Region, Regional Administrator
	Amy Corbett, 781-238-7020, Amy.Corbett@faa.gov
	1200 District Avenue
	Burlington, Massachusetts 01803

Routing Symbol	Officials
	Duty Officer, 404-305-5150
ANG	William J. Hughes Technical Center, Director
	Shelly J. Yak
	Atlantic City International Airport
	New Jersey 08405
	Duty Officer, 609-485-6482
AMA	FAA Academy, Director
	Vacant
	Building 12, Room 129
	P.O. Box 25082
	Oklahoma City, Oklahoma 73125
	Duty Office, 202-267-8627
AMK	Enterprise Services Center, Director
	Robyn M. Burk
	6500 South MacArthur Boulevard
	Oklahoma City, Oklahoma 73125
	Duty Officer, 202-267-8627
AML	FAA Logistics Center, Program Director
	Randall Burke
	6500 South MacArthur Boulevard
	Oklahoma City, Oklahoma 73125
	Duty Officer, 202-267-8627
ANM	Northwest Mountain Region, Regional Administrator
	David Suomi, 425-227-2002, David.Suomi@faa.gov
	1601 Lind Avenue, S.W.
	Renton, Washington 98055-4056
	Duty Officer, 907-271-5936
ASO	Southern Region, Regional Administrator
	Pearlis Johnson, Acting, 425-227-2002, Pearlis.Johnson@faa.gov
	1701 Columbia Avenue
	College Park, GA 30337
	Duty Officer, 404-305-5150
ASW	Southwest Region, Regional Administrator
	Robert Lowe, Acting
	2601 Meacham Boulevard
	Fort Worth, Texas 76137-4298
	Duty Officer, 817-222-5006
AWP	Western-Pacific Region, Regional Administrator
	Dennis Roberts
	15000 Aviation Boulevard
	Hawthorne, California 90261
	Duty Officer, 907-271-5936

Routing Symbol	Officials
AEU	Africa, Europe and Middle East Office
	Director, Catherine M. Lang, 228-11-5159, Katherine.M.Lang@faa.gov
APC	Asia, Pacific Office
	Director, Carey Fagan, +65 6476-9475, Carey.Fagan@faa.gov
AWH	Western Hemisphere
	Director, Christopher Barks, 507-317-5370, Christopher.Barks@faa.gov
0 0	CC CII D M (AIID) AIIE 200

**Source:** Office of Human Resource Management (AHR) - AHF-300

As of September 5, 2017

## **FAA Regions**



Source: Office of FAA Regions and Center Operations, 202-267-9011

## **FAA Budget Summary**

	FY 2016 Enacted	FY 2017 Enacted
Operations	9,909,724	10,025,852
Air Traffic (ATO)	7,506,934	7,559,785
Aviation Safety (AVS)	1,258,411	1,298,482
Commercial Space (AST)	17,800	19,826
Finance & Management (AFN)	760,500	771,342
NextGen (ANG)	60,089	60,155
Security & Hazmat Safety (ASH)	99,239	107,161
Staff Offices	206,751	209,101
Facilities & Equipment	2,855,000	2,855,000
Activity 1 Engineering & Testing	156,050	156,960
Activity 2 ATC Facilities & Equip.	1,832,201	1,791,710
Activity 3 Non-ATC Fac. & Equip.	171,000	182,930
Activity 4 Mission Support	225,700	237,400
Activity 5 Personnel & Expenses	470,049	486,000
Research, Engineering & Dev.	166,000	176,500
Safety	95,969	105,370
Economic Competitiveness	22,589	22,243
Environmental Sustainability	41,897	43,187
Mission Support	5,545	5,700
Grants-in-aid for Airports	3,350,000	3,350,000
Personnel & Related Expenses	107,100	107,691
Airport Cooperative Research	15,000	15,000
Grants-in-aid for Airports	3,191,900	3,185,934
Airport Technology Research	31,000	31,375
Small Community Air Service	5,000	10,000
TOTAL	16,280,724	16,407,352

Source: FAA Office of Financial Services

### FAA Workforce Data: Line of Business and Location

	Yea	nr
Line of Business	2016	2017
Air Traffic Organization (ATO)	31248	31078
Airports (ARP)	551	534
Aviation Safety (AVS)	7424	7301
Commercial Space Transportation (AST)	95	96
Security & Hazardous Materials Safety (ASH)	491	486
Staff Offices	5416	5357
Grand Total	45225	44852
Location (Region/Center)	2016	2017
Aeronautical Center	3436	3105
Alaskan	844	790
Central	1962	1563
Eastern	4303	4150
Great Lkaes	5095	4990
New England	1275	1064
Northwest Mountains	3849	3279
Southern	6232	6013
Southwest	4608	4256
Western-Pacific	4290	4170
Washington Headquarters	8603	10743
Technical Center	728	729
Grand Total	45225	44852

**Source:** Office of Human Resource Management (AHR): AHP-200

Full-Time, Permanent Employees Only; Calendar Year/Pay Period 2016-24 and 2017-24 (comparison)

As of November 10, 2017

# FAA Workforce Demographics: Minorities and Non-Minorities (Line of Business and Location)

	2016		2017	
Line of Business	Minority	Non-Minority	Minority	Non-Minority
Air Traffic Organization (ATO)	16.24%	83.76%	17.58%	82.42%
Airports (ARP)	19.24%	80.76%	19.85%	80.15%
Aviation Safety (AVS)	15.87%	84.13%	16.45%	83.55%
Commercial Space Transportation (AST)	15.79%	84.21%	18.75%	81.25%
Security & Hazardous Materials Safety (ASH)	23.22%	76.78%	24.90%	75.10%
Staff Offices	22.18%	77.82%	22.74%	77.26%
Grand Total	17.00%	83.00%	18.12%	81.88%
Location (Region/Center)	Minority	Non-Minority	Minority	Non-Minority
Aeronautical Center	16.50%	83.50%	17.07%	82.93%
Alaskan	13.63%	86.37%	15.06%	84.94%
Central	10.70%	89.30%	10.11%	89.89%
Eastern	14.46%	85.54%	15.73%	84.27%
Great Lkaes	8.87%	91.13%	9.64%	90.36%
New England	7.61%	92.39%	6.48%	93.52%
Northwest Mountains	11.51%	88.49%	10.86%	89.14%
Southern	20.47%	79.53%	22.19%	77.81%
Southwest	19.57%	80.43%	20.86%	79.14%
Western-Pacific	24.64%	75.36%	26.52%	73.48%
Washington Headquarters	21.36%	78.64%	21.58%	78.42%
Technical Center	14.97%	85.03%	15.91%	84.09%
Grand Total	17.00%	83.00%	18.12%	81.88%

**Source:** Office of Human Resource Management (AHR): AHP-200

Full-Time, Permanent Employees Only; Calendar Year/Pay Period 2016-24 and 2017-24 (comparison)

As of November 10, 2017

# FAA Workforce Demographics: Female and Male (Line of Business and Location)

	20	16	20	17
Line of Business	Female	Male	Female	Male
Air Traffic Organization (ATO)	19.16%	80.84%	19.07%	80.93%
Airports (ARP)	38.48%	61.52%	38.58%	61.42%
Aviation Safety (AVS)	25.84%	74.16%	25.79%	74.21%
Commercial Space Transportation (AST)	32.63%	67.37%	30.21%	69.79%
Security & Hazardous Materials Safety (ASH)	39.92%	60.08%	41.15%	58.85%
Staff Offices	44.46%	55.54%	44.28%	55.72%
Grand Total	23.78%	76.22%	23.67%	76.33%
Line of Business	Female	Male	Female	Male
Aeronautical Center	34.14%	65.86%	32.85%	67.15%
Alaskan	19.19%	80.81%	18.35%	81.65%
Central	20.44%	79.56%	18.11%	81.89%
Eastern	17.94%	82.06%	17.25%	82.75%
Great Lkaes	17.08%	82.92%	16.55%	83.45%
New England	21.10%	78.90%	20.11%	79.89%
Northwest Mountains	23.02%	76.98%	21.23%	78.77%
Southern	19.77%	80.23%	19.46%	80.54%
Southwest	19.60%	80.40%	18.61%	81.39%
Western-Pacific	20.28%	79.72%	20.07%	79.93%
Washington Headquarters	34.91%	65.09%	34.46%	65.54%
Technical Center	29.12%	70.88%	29.63%	70.37%
Grand Total	23.78%	76.22%	23.67%	76.33%

**Source:** Office of Human Resource Management (AHR): AHP-200

Full-Time, Permanent Employees Only; Calendar Year/Pay Period 2016-24 and 2017-24 (comparison)

As of November 10, 2017

## Labor Relations Bargaining Units Labor Agreements Employees Represented

	<b>Bargaining Units</b>	<b>Labor Agreements</b>	<b>Employees Represented</b>
Unions	33	15	35,215
AFGE	4	3	1,556
AFSCME (HQ)	1	1	2,360
LIUNA	1	1	179
NAGE	2	2	170
NATCA	15	3	19,299
NFFE	3	1	612
PAACE	2	2	314
PASS	5	2	10,725
Unrepresented			971
Nonbargaining			9,300
		Total employees:	45,486

AFGE American Federation of Government Employees AFSCME American Federation of State, County and Municipal Employees Laborers' International Union of North America LIUNA NAGE National Association of Government Employees NATCA National Air Traffic Controllers Association NFFE National Federation of Federal Employees PAACE Professional Association of Aeronautical Center Employees PASS Professional Aviation Safety Specialists Office of Human Resource Management (AHR): AHL-400 Source:

As of November 11, 2017

#### **Air Traffic-related Facilities**

Airports	19,601
Public Airports	5,116
Private Airports	14,485
ATC Towers	521
Federal	268
Contract	253
TRACONS	160
Stand-Alone	27
Combined ATC Towers	132
RAPCON	1
En Route Centers	25
ARTCC	21
CERAP/CCF	4

**Source:** OPSNET, Office of Performance Analysis (AJR-G)

# **Recently Published Rulemaking Documents**

Recently published rulemaking documents can be found on the FAA website at the link below.

https://www.faa.gov/regulations\_policies/rulemaking/recently\_published/